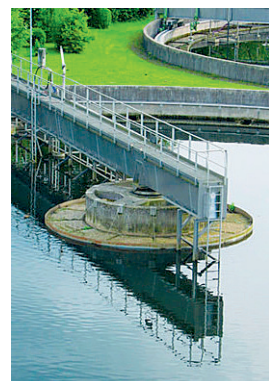




The NIVA Level Controller MS1 EX is the ideal solution to control liquids with limited switching space in potentially explosive atmospheres classified Cl.1 Div.1, (ATEX Zone 0, 1 or 2) e.g. in:

- Refineries
- Gas stations
- Sewage works



The NIVA Level Controller MS1 EX meets the latest requirements of EC directive 95/9/EC (ATEX 95) and the international directive IECEx, which must be respected by applications in potentially explosive areas. In accordance with license ASEV 99.110036.02 the Level Controller MS1 EX may be used in zone 0, zone 1 and zone 2 as well as in gas groups IIA, IIB and IIC, where an explosion hazard exists due to combustible materials in temperature classes T1 to T6.

Available versions:

Type	Cable	Cable length (approx.)	Order number
SPDT	TPR/PVC 4G0,75 mm ²	5m (16ft)	40 000205
SPDT	TPR/PVC 4G0,75 mm ²	10m (30ft)	40 000210
SPDT	TPR/PVC 4G0,75 mm ²	20m (65ft)	40 000220
SPDT	TPR/PVC 4G0,75 mm ²	30m (98ft)	40 000230
Other cable types and lengths are available upon request			
Intrinsic safety barrier relay			06 3232

MS1 EX C with higher resistance to chemicals

Type	Cable	Cable length (approx.)	Order number
SPDT	Teflon/FEP 4G0,5 mm ²	5	40 001505
SPDT	Teflon/FEP 4G0,5 mm ²	10	40 001510
SPDT	Teflon/FEP 4G0,5 mm ²	20	40 001520
SPDT	Teflon/FEP 4G0,5 mm ²	30	40 001530
Other cable types and lengths are available upon request			


Application:

For use in intrinsically safe electrical circuits in zones 0, 1 and 2 (Cl.1 Div.1). IECEx certificate is recognized in many countries including the U.S., Canada, India, China, Australia. For a complete list check the IEC countries website.


Electronic connection

Connection of level controller	Wire			
	gray	black	brown	⊕
For emptying a tank	insulate	X	X	X
For filling a tank	X	insulate	X	X
High level alarm	insulate	X	X	X
Low level alarm	X	insulate	X	X

Technical data subject to change

 Ground wire to prevent electrostatic discharge

Technical Data

Specific weight:	0.95 – 1.05 or according to specification
Max. temperature:	80°C (176°F)
Breaking capacity:	1 - 100 mA / 4 V - 40 V*
Switch point:	10°
Inductance L _i :	0
Capacitance C _i :	0
Protective system:	 II 1G Ex ia IIC T6
Cable cross section:	4G0.75 mm ²
Height / diameter:	180 / 100 mm
Housing quality:	PRE-ELEC PP**
Housing Color:	Black
Cable quality:	TPR / PVC (Teflon/FEP for MS1 EX C)
Cable color:	Blue

* Micro-switch with gold-plated contacts made especially for low currents in electronic circuits

** Specially defective plastic to prevent electrostatic charging when used in Ex-area (in accordance with ATEX 95).

■ EC type examination certificate SEV 13 ATEX 0102

■ IECEx SEV 13.0001